

EXPENDITURES ON ACCOUNT OF COAST SURVEY.

LETTER

FROM

THE SECRETARY OF THE TREASURY,

TRANSMITTING

A report of expenditures on account of Coast Survey for the fiscal year ended June 30, 1878.

JANUARY 29, 1879.—Referred to the Committee on Appropriations and ordered to be printed.

TREASURY DEPARTMENT, *January 28, 1879.*

SIR: In accordance with the provisions of act of Congress approved March 3, 1853, I have the honor to transmit herewith a copy of a letter of the 27th instant from Mr. C. P. Patterson, Superintendent of the United States Coast Survey, inclosing a report of expenditures on account of the Coast Survey for the fiscal year ending June 30, 1878.

Very respectfully,

JOHN SHERMAN,
Secretary.

Hon. SAMUEL J. RANDALL,
Speaker of the House of Representatives.

UNITED STATES COAST AND GEODETIC SURVEY OFFICE,
Washington, January 27, 1879.

SIR: Herewith, for transmission to Congress, as required by act approved March 3, 1853, I have the honor to forward a report of expenditures on account of this service for the fiscal year ending June 30, 1878.

Very respectfully,

C. P. PATTERSON,
Superintendent.

Hon. JOHN SHERMAN,
Secretary of the Treasury.

List showing the number and names of persons employed in the Coast and Geodetic Survey during the fiscal year ending June 30, 1878, the amount of compensation and time of employment, with a statement of all expenditures made under the direction of the Superintendent of the Coast and Geodetic Survey; prepared pursuant to act of Congress approved March 3, 1853.

	Amount of compensation.	Time employed.	Remarks.
SUPERINTENDENT.			
C. P. Patterson.....	\$6,000 00	1 year.....	
CONSULTING GEOMETER.			
Benjamin Peirce.....	4,000 00	1 year.....	
ASSISTANT IN CHARGE OF OFFICE.			
J. E. Hilgard.....	4,200 00	1 year.....	
ASSISTANTS.			
George Davidson.....	3,730 00	1 year.....	
Richard D. Cutts.....	3,620 00	1 year.....	
C. O. Bontelle.....	3,620 00	1 year.....	
Henry Mitchell.....	3,200 00	1 year.....	
Henry L. Whiting.....	3,160 00	1 year.....	
F. H. Gerdes.....	3,150 00	1 year.....	
W. W. Cooper.....	3,480 00	1 year.....	
George W. Dean.....	2,870 00	1 year.....	
C. S. Peirce.....	2,870 00	1 year.....	
W. E. Greenwell.....	2,750 00	1 year.....	
A. F. Rodgers.....	2,640 00	1 year.....	
A. M. Harrison.....	2,180 00	1 year.....	
George A. Fairfield.....	2,180 00	1 year.....	
J. A. Sullivan.....	2,180 00	1 year.....	
James S. Lawson.....	2,120 00	1 year.....	
Cleveland Rockwell.....	2,120 00	1 year.....	
A. W. Longfellow.....	2,070 00	1 year.....	
F. P. Webber.....	139 11	25 days	
W. H. Dennis.....	2,070 00	1 year.....	
Edward Goodfellow.....	2,010 00	1 year.....	
Charles M. Bache.....	2,010 00	1 year.....	
John W. Donn.....	2,010 00	1 year.....	
A. T. Mosman.....	2,010 00	1 year.....	
C. H. Boyd.....	1,950 00	1 year.....	
Charles Hosmer.....	1,950 00	1 year.....	
C. T. Iardella.....	1,900 00	1 year.....	
J. S. Bradford.....	1,900 00	1 year.....	
S. C. McCorkle.....	1,840 00	1 year.....	
R. E. Halter.....	1,800 00	1 year.....	
R. M. Bache.....	1,780 00	1 year.....	
Fred. F. Nes.....	1,780 00	1 year.....	
A. W. Chase.....	1,750 00	1 year.....	
L. A. Sengteller.....	1,750 00	1 year.....	
Gershom Bradford.....	1,610 00	1 year.....	
H. G. Ogden.....	1,600 00	1 year.....	
H. L. Marindin.....	1,600 00	1 year.....	
Francis Blake, jr.....	946 16	9 months and 14 days.	
William Eimbeck.....	1,600 00	1 year.....	
Stehman Forney.....	1,500 00	1 year.....	
J. J. Gilbert.....	1,508 33	1 year.....	
F. Walley Perkins.....	1,583 33	1 year.....	
O. H. Tittmann.....	1,483 33	1 year.....	
F. D. Granger.....	1,483 33	1 year.....	
B. A. Colonna.....	1,335 00	1 year.....	
Edwin Smith.....	1,283 34	1 year.....	
ACTING ASSISTANT.			
W. H. Dall.....	1,500 00	1 year.....	
SUBASSISTANTS.			
W. Irving Vinal.....	1,100 00	1 year.....	
Joseph Hergesheimer.....	1,100 00	1 year.....	
Andrew Braid.....	1,100 00	1 year.....	
Eugene Ellicott.....	1,025 00	1 year.....	
W. H. Blair.....	83 33	1 month.....	
ENGINEERS ON HYDROGRAPHIC VESSELS.			
William M. Rodes.....	2,547 42	1 year.....	
William H. Mapes.....	2,093 00	1 year.....	

List of persons employed in the Coast and Geodetic Survey, &c.—Continued.

	Amount of compensation.	Time employed.	Remarks.
DISBURSING AGENT.			
J. W. Porter	\$2,500 00	1 year.....	
BOOKKEEPER AND ACCOUNTANT.			
R. L. Hawkins	2,000 00	1 year.....	
OFFICE OF THE SUPERINTENDENT.			
Samuel Hein, clerk	1,800 00	1 year.....	
William B. Chilton, clerk.....	840 00	1 year.....	
COMPUTERS.			
Charles A. Schott, assistant.....	2,760 00	1 year.....	
James Main	950 00	7 months.....	
G. Rumpf	1,740 00	1 year.....	
M. H. Doolittle.....	1,680 00	1 year.....	
M. W. Wines	1,200 00	1 year.....	
C. Acton Ives	92 26	43 days.....	
J. B. Baylor	668 71	9½ months.....	
C. H. Van Orden	225 00	3 months.....	
H. W. Blair	420 00	4 months.....	
Francis H. Parsons	300 00	4 months.....	
J. Hosmer Lane	390 00	3 months.....	
William Ferrell	350 00	3 months.....	
M. E. Nesbitt, writer.....	720 00	1 year.....	
William B. French, writer	412 50	5½ months.....	
Paul Labanoff	168 00	48 days.....	
C. Powalky	150 00	1 month.....	
ASTRONOMICAL COMPUTER.			
Marcus Baker	1,500 00	1 year.....	
TIDE-COMPUTERS.			
R. S. Avery	2,000 00	1 year.....	
John Downes	800 00	1 year.....	
M. Thomas	720 00	1 year.....	
L. P. Shidy	900 00	1 year.....	
DRAUGHTSMEN.			
W. T. Bright, in charge	2,050 00	1 year.....	
A. Lindenkohl	2,350 00	1 year.....	
Louis Karcher	1,794 00	1 year.....	
C. A. Mueth	1,196 00	1 year.....	
P. Erichson	1,248 00	1 year.....	
Bion Bradbury	450 00	6 months.....	
E. Hergesheimer	1,700 00	.....	Contract.
H. Lindenkohl	2,100 00	1 year.....	
E. J. Sommer	535 00	.....	Contract.
HYDROGRAPHIC DRAUGHTSMEN.			
E. Willenbacher	2,000 00	1 year.....	
Charles Junken	1,800 00	1 year.....	
W. C. Willenbacher	998 40	1 year.....	
J. Sprandel	252 20	52 days.....	
SUBOFFICE, SAN FRANCISCO.			
G. Farquhar, draughtsman.....	1,800 00	1 year.....	
Vincente Denis, janitor	892 04	1 year.....	
ENGRAVERS.			
E. A. Maedel	2,000 00	1 year.....	
A. Sengteller	1,800 00	1 year.....	
H. M. Knight	1,716 00	1 year.....	
A. Peterson	1,716 00	1 year.....	
William A. Thompson	1,716 00	1 year.....	
John G. Thompson	1,560 00	1 year.....	
John J. Young	1,612 00	1 year.....	
E. Molkow	1,248 00	1 year.....	
Edward M. Sipe	1,228 50	1 year.....	
William H. Davis	1,170 00	1 year.....	
J. Enthoffer	1,664 63	1 year.....	Contract.
R. F. Bartle	826 55	.....	Contract.
F. Courtenay	682 68	.....	Contract.
H. C. Evans	675 00	.....	Contract.
Theo. Wasserbach	62 50	.....	Contract.

List of persons employed in the Coast and Geodetic Survey, &c.—Continued.

	Amount of compensation.	Time employed.	Remarks.
WRITERS.			
George A. Morrison	\$840 00	1 year	
L. C. Kerr	486 29	6½ months	
John H. Smoot	60 00	1 month	
ELECTROTYPISTS.			
A. Zumbroch	2,000 00	1 year	
Frank Over, assistant	1,000 00	1 year	
MISCELLANEOUS CLERK.			
John T. Hoover	1,846 11	10 ³ / ₃₁ months	July 1, 1877, to May 25, 1878.
WRITERS.			
W. A. Herbert	1,200 00	1 year	
C. Abert	875 00	1 year	
CLERK IN ARCHIVES.			
G. A. Stewart	1,500 00	1 year	
MAP-ROOM.			
Thomas McDonnell	1,400 00	1 year	
Hugo Eichholtz	780 00	1 year	
H. Nessen	1,170 00	1 year	
PRINTERS.			
Frank Moore	1,560 00	1 year	
D. N. Hoover	493 00	1 year	
INSTRUMENT-MAKERS.			
John Clark	1,560 00	1 year	
G. N. Saegmueller	1,560 00	1 year	
William Jacobi	1,092 00	1 year	
E. Eschleman	929 50	1 year	
John J. Clark	208 00	2 months	
Werner Suess	100 00	1 month	
CARPENTERS.			
A. Yeatman	1,560 00	1 year	
F. E. Lackey	612 50	175 days	
C. Webster	88 75	75 days	
G. W. Clarvoe, laborer	7 00	14 days	
PUBLISHING RESULTS.			
William Ferrel, in charge	1,050 00	9 months	
E. H. Courtenay	1,620 00	1 year	
L. J. Ferrel	540 00	1 year	
A. Davies	456 00	9 months	
EXTRA OBSERVER.			
H. F. Walling	300 00	2 months	
AIDS.			
George H. Wilson	240 00	4 months	
F. Westdall	375 00	5 months	
C. H. Van Orden	150 00	2 months	
D. B. Wainwright	75 00	1 month	
COPYISTS.			
Richard M. Harvey	275 00	11 months	
C. A. Dorsey	125 00	5 months	
M. G. Meade	139 36	4½ months	
C. B. Turnbull	100 00	4 months	
S. B. Walker	191 61	3 months & 6 days	
C. L. Barton	136 50	3 months	
MESSENGERS.			
William H. Butler	876 00	1 year	
William Young	821 25	1 year	
Nelson Harrod	821 25	1 year	
W. B. Ingram	730 00	1 year	
Charles Over	730 00	1 year	
Henry McKenzie	730 00	1 year	
Edward L. Savoy	140 30	2 months	

List of persons employed in the Coast and Geodetic Survey, &c.—Continued.

	Amount of compensa- tion.	Time employed.	Remarks.
WATCHMEN.			
A. C. Whitney	\$803 00	1 year	
B. Neff	784 75	1 year	
William L. Long	784 75	1 year	
W. D. Butler, laborer	547 50	1 year	
FIREMEN.			
Richard Waters	730 00	1 year	
Horace Dyer	371 00	7 months	
DRIVER.			
Hazzard McCoy	660 00	1 year	

Expenditures for the survey of the Atlantic and Gulf coast of the United States for the fiscal year ending June 30, 1878.

	1877.		1878.		Total for year.
	Quarter ending—		Quarter ending—		
	Sept. 30.	Dec. 31.	Mar. 31.	June 30.	
Triangulation and astronomical	\$11,321 31	\$7,306 02	\$2,896 86	\$17,581 83	\$39,106 02
Topography	6,968 59	6,462 75	7,296 53	8,906 24	29,634 11
Hydrography	9,538 67	14,351 54	15,468 60	12,618 23	51,977 04
Coast Pilot	1,029 58	674 62	494 35	502 17	2,700 72
Geodetic work	5,786 58	2,801 80	521 30	9,780 01	18,889 69
Pendulum operations	938 07	1,942 32	2,299 91	1,964 87	7,145 17
Leveling	281 75	1,657 80	124 85	810 34	2,874 74
Magnetics	208 31	279 60	93 65	667 65	1,249 21
Tidal operations	925 10	1,029 24	947 97	863 12	3,765 43
Ship keeping, &c.	517 60	611 36	437 25	519 05	2,085 26
Instruments	656 78	364 37	.....	.....	1,021 55
Office expenses	4,137 66	4,358 02	.....	176 45	8,672 13
Salaries, office	12,392 29	12,306 99	11,077 42	13,866 73	49,643 43
Salaries, field	20,749 00	21,599 00	18,834 11	17,931 99	79,114 10
Pay of engineers	532 00	515 00	537 00	509 00	2,093 00
Total expenditures	75,983 29	76,260 83	61,029 80	86,697 68	299,971 60
Appropriation					300,000 00
Expenditures					299,971 60
Balance.....					28 40

Expenditures made for the survey of the western coast of the United States for the fiscal year ending June 30, 1878.

	1877.		1878.		Total for year.
	Quarter ending—		Quarter ending—		
	Sept. 30.	Dec. 31.	Mar. 31.	June 30.	
Triangulation.....	\$6,121 86	\$4,925 39	\$1,045 97	\$9,846 28	\$21,939 50
Topography.....	5,875 27	4,102 47	2,913 43	8,205 86	21,097 03
Hydrography.....	9,540 72	7,691 42	5,292 57	10,419 11	32,943 82
Geodetic, including tents.....				3,448 34	3,448 34
Tidal operations.....	715 22	864 12	271 88	236 90	2,088 12
Office expenses.....	92 26	144 45	3,784 42	5,893 24	9,914 37
Salaries, office.....	12,807 25	13,450 31	14,133 77	13,545 63	53,936 96
Salaries, field.....	6,078 33	7,227 50	8,830 00	9,943 83	32,079 66
Pay of engineers.....	637 98	637 98	634 98	637 98	2,548 92
Total expenditures.....	41,868 89	39,043 64	36,907 02	62,177 17	179,996 72
Appropriation.....					180,000 00
Expenditures.....					179,996 72
Balance.....					3 28

For repairs and maintenance of the complement of vessels used in the Coast Survey in fiscal year 1878.

ATLANTIC AND GULF COAST.

Repairs of steamer Blake.....	\$9,795 28
Repairs of steamer Bache.....	1,893 11
Repairs of steamer Endeavor.....	797 33
Repairs of steamer Baton Rouge.....	708 62
Repairs of steamer Gedney.....	703 09
Repairs of steamer Fathomer.....	425 36
Repairs of steamer Hitchcock.....	780 48
Repairs of steamer Arago.....	964 31
Repairs of schooner Palinurus.....	1,761 35
Repairs of schooner Scoresby.....	1,524 35
Repairs of schooner Earnest.....	1,876 44
Repairs of schooner Silliman.....	698 39
Repairs of schooner Caswell.....	370 00
Repairs of schooner Ready.....	158 75
Repairs of schooner Mohawk.....	290 59
Repairs of steam-launches.....	2,566 13

WESTERN COAST.

Repairs of steamer Hassler.....	3,250 19
Repairs of steamer McArthur.....	257 74
Repairs of schooner Yukon.....	558 23
Repairs of schooner Fauntleroy.....	325 00
Total expenditures.....	29,734 74
Appropriation for 1878.....	30,000 00
Balance.....	265 26
For purchase and repairs of schooner Mohawk.....	19,905 78
Appropriation.....	20,000 00
Balance.....	94 22

For general expenses of the Coast Survey in fiscal year 1878.

For rent of buildings, numbered 211, South New Jersey avenue, and 215, South Capitol street.....	\$13,600 00
For rent of fire-proof building, numbered 205 South New Jersey avenue...	5,000 00
For rent of office, San Francisco, Cal.....	1,847 87
For fuel for all offices and buildings	1,798 33
For the transportation of instruments, maps, and charts; the purchase of new instruments, books, maps, and charts, and for gas and other miscellaneous expenses	9,436 00
Total expenditures	31,682 20
Appropriation for 1878	32,000 00
Balance.....	317 80

For publishing the observations and results made in the progress of the survey of the coast in fiscal year 1878.

Pay of those employed.....	\$3,660 00
Engraving, photolithographing, printing, &c	2,240 10
Total expenditures	5,900 10
Appropriation for 1878	6,000 00
Balance.....	99 90

For construction of metric standard of weights and measures in fiscal year 1878.

Pay of those employed.....	\$2,955 75
Rent.....	1,400 00
Fuel and contingencies	344 25
Total expenditures	4,700 00
Appropriation for 1878.....	4,700 00

I certify the foregoing to be a true exhibit of expenditures of the United States Coast and Geodetic Survey for the fiscal year ending June 30, 1878.

J. W. PORTER,
Disbursing Agent.

